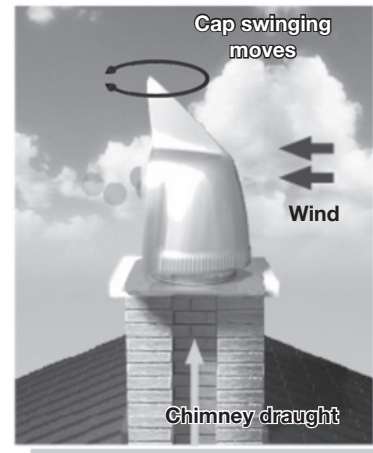


PICTURE



FUNCTION PRINCIPLE



DESCRIPTION

Self-adjusting chimney cowl Rotowent is a device, which, in dynamic way, uses force of the wind to increase chimney draught. The cap always places itself in the opposite direction to the wind no matter of its strength or direction. It is to be mounted on gravitation based chimney ducts endings: ventilation, flue (gas, oil) and smoke.

Maximal working temperatures:

- with rotating system on slide bearings: 500 [°C]
- with rotating system on ball bearings: 150 [°C]

Includes solutions reserved in the RP Patent Office

DESTINATION

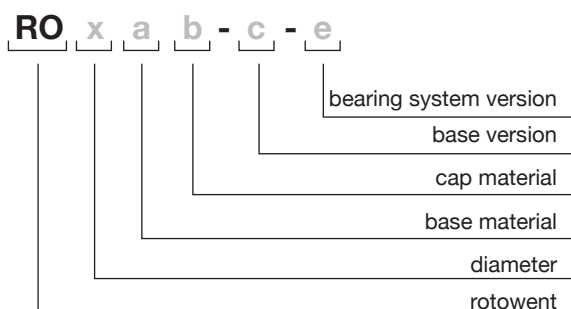
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak
- in order to improve the natural (gravitation) ventilation, flue or smoke chimney draught

MEASUREMENTS

Diameter	Cap rotation diameter D [mm]
Ø 150	~ 325
Ø 200	~ 395
Ø 250	~ 455
Ø 300	~ 550
Ø 350	~ 630
Ø 400	~ 670



DENOTATIONS / PRODUCT CODES



MATERIALS

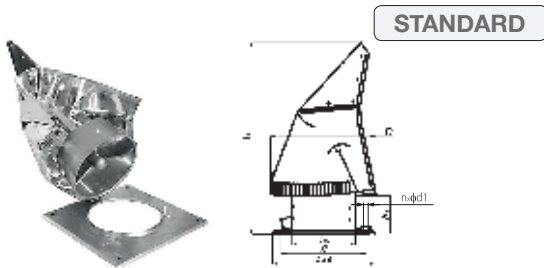
Destination	W	W	W	W	W - ventilation ducts
	S	-	S	-	S - gas and oil exhaust ducts
slide bearings	-	-	D	-	D - smoke ducts
	W	W	W	W	W - ventilation ducts
ball bearings (Ł)	-	-	-	-	S - gas and oil exhaust ducts
	-	-	-	-	D - smoke ducts
Base material	CH	-	CH	-	CH - chrome-nickel sheet 1.4301
	-	OC	-	OC	OC - galvanised steel sheet
Cap material	CH	-	-	CH	CH - chrome-nickel sheet 1.4301
	-	OC	-	ML	OC - galvanised steel sheet
	-	-	*)	-	*) - chrome-nickel sheet 1.4404

NOTICE!

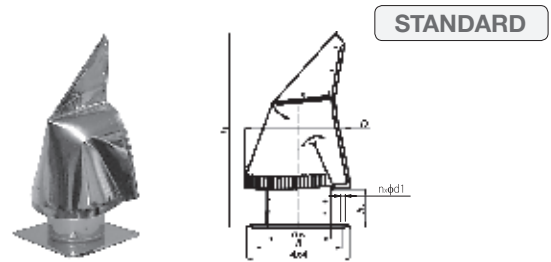
The cowl shouldn't be mounted on ducts exhausting fumes from stoves for low temperature fuels based on coal

**ROTOWENT - VERSIONS OF BASES**

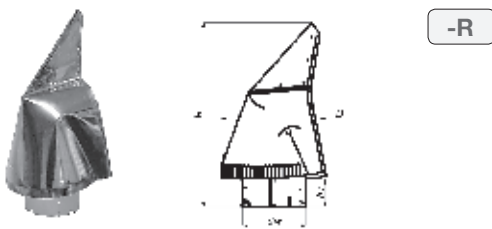
**1. SQUARE BASE OPENABLE**  
Ø150, Ø200, Ø250



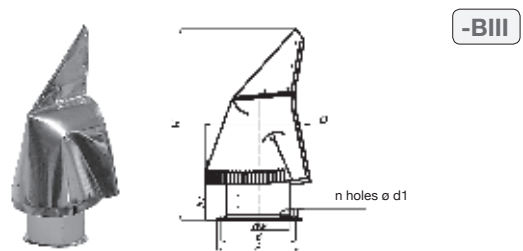
**1a. SQUARE BASE NOT OPENABLE Ø300-Ø400**



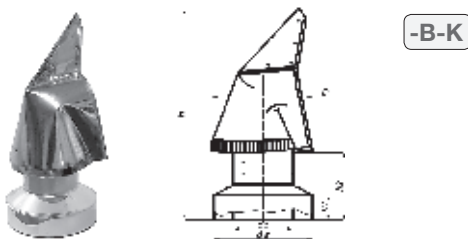
**2. DISMOUNTABLE BASE**



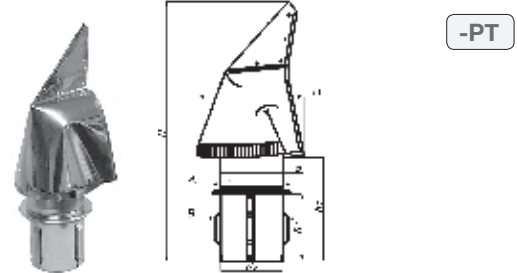
**3. BASE WITH COLLAR**



**4. BASE WITH INSULATION CLOSING**

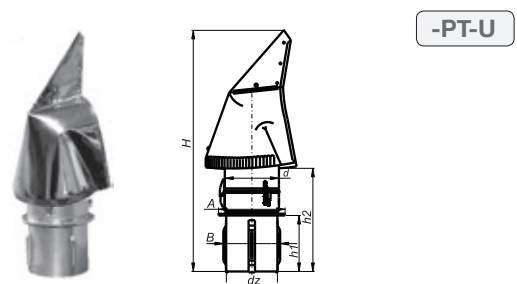
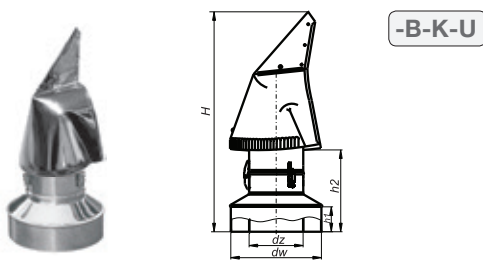


**5. FORCE-IN BASE**



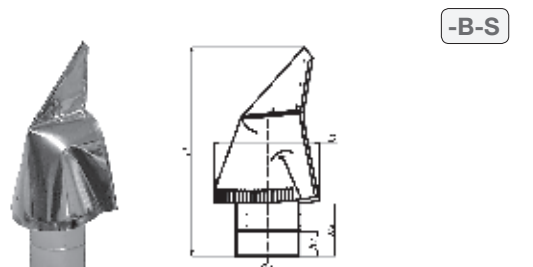
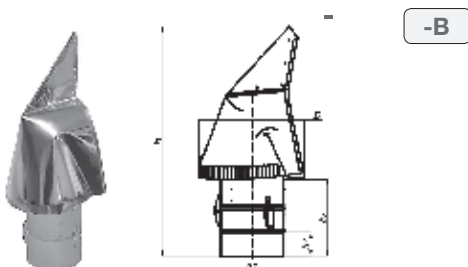
**6. BASE WITH INSULATION CLOSING OPENABLE**

**7. FORCE-IN MOUNTING BASE OPENABLE Ø150÷Ø300**

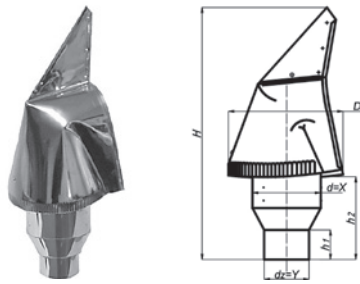


**8. INLET PIPE OPENABLE Ø150 - Ø300**

**9. INLET PIPE NOT OPENABLE**

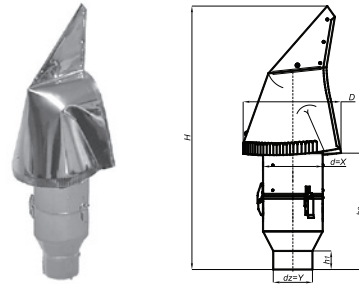


**10. INLET PIPE REDUCED**



-X/Y...-B-S

**11. INLET PIPE REDUCED OPENABLE**  
 Ø150 ÷ Ø300



-X/Y...-B

**MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS**

Ø 150	Dimensions [mm]										Weight [kg]		
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH
STANDARD	~325	148.0	-	465	54	-	250	208	6.2	4	1.75	1.80	1.80
-R	~325	150.5	-	500	89	-	-	-	-	-	1.40	1.45	1.45
-BIII	~325	150.5	-	460	50	-	212	182	9.5	6	1.80	1.85	1.85
-B-K	~325	253.3	151.8	580	70	170	-	-	-	-	2.30	2.35	2.35
-PT	~325	-	144.0	615	157	205	187	158	-	-	2.10	2.15	2.15
-B-K-U	~325	253.3	151.8	630	70	220	-	-	-	-	2.60	2.65	2.65
-PT-U	~325	-	144.0	665	157	255	187	158	-	-	2.30	2.35	2.35
-B	~325	-	152.0	585	60	174	-	-	-	-	1.75	1.80	1.80
-B-S	~325	-	152.0	531	60	120	-	-	-	-	1.55	1.60	1.60
-X/Y...-B-S	~325	-	Y	576	60	165	-	-	-	-	1.75	1.80	1.80
-X/Y...-B	~325	-	Y	675	60	264	-	-	-	-	2.10	2.15	2.15

Ø 200	Dimensions [mm]										Weight [kg]		
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH
STANDARD	~395	198.0	-	500	55	-	330	284	6.2	4	2.50	2.60	2.60
-R	~395	200.0	-	535	90	-	-	-	-	-	1.85	1.95	1.95
-BIII	~395	199.0	-	495	50	-	263	233	9.5	6	2.35	2.45	2.45
-B-K	~395	303.1	201.1	615	70	170	-	-	-	-	2.90	3.00	3.00
-PT	~395	-	194.0	660	167	215	237	208	-	-	2.70	2.80	2.80
-B-K-U	~395	303.1	201.1	665	70	220	-	-	-	-	3.25	3.35	3.35
-PT-U	~395	-	194.0	710	167	265	237	208	-	-	3.05	3.15	3.15
-B	~395	-	201.1	619	60	174	-	-	-	-	2.30	2.40	2.40
-B-S	~395	-	201.1	565	60	120	-	-	-	-	2.00	2.10	2.10
-X/Y...-B-S	~395	-	Y	610	60	165	-	-	-	-	2.25	2.35	2.35
-X/Y...-B	~395	-	Y	709	60	264	-	-	-	-	2.75	2.85	2.85

### MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

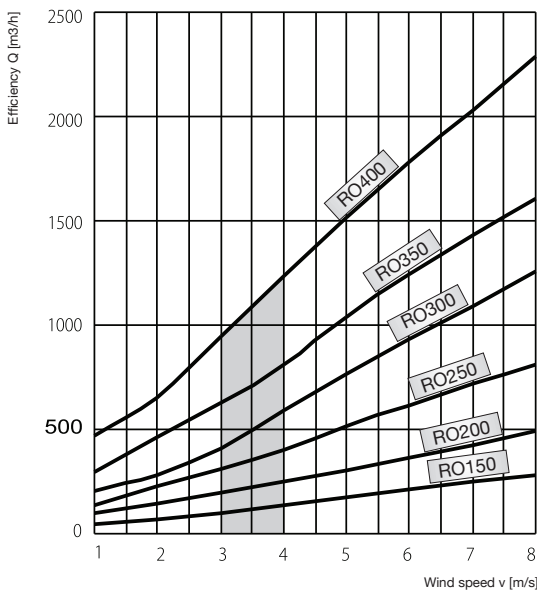
Ø 250	Dimensions [mm]										Weight [kg]		
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH	CHCH
STANDARD	~455	245.0	-	628	56	-	380	330	6.2	4	3.30	3.50	3.50
-R	~455	250.3	-	652	80	-	-	-	-	-	2.35	2.55	2.55
-BIII	~455	250.8	-	622	50	-	313	283	9.5	8	3.05	3.25	3.25
-B-K	~455	352.4	252.3	732	70	160	-	-	-	-	3.70	3.90	3.90
-PT	~455	-	244.0	787	177	215	287	259	-	-	3.55	3.75	3.75
-B-K-U	~455	352.4	252.3	782	70	210	-	-	-	-	4.15	4.35	4.35
-PT-U	~455	-	244.0	837	177	355	287	259	-	-	4.00	4.20	4.20
-B	~455	-	252.3	776	60	204	-	-	-	-	3.20	3.40	3.40
-B-S	~455	-	252.3	682	60	110	-	-	-	-	2.60	2.80	2.80
-X/Y-...-B-S	~455	-	Y	647	60	165	-	-	-	-	2.95	3.15	3.15
-X/Y-...-B	~455	-	Y	866	60	294	-	-	-	-	3.80	4.00	4.00

Ø 300	Dimensions [mm]										Weight [kg]		
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH	CHCH
STANDARD	~550	293.0	-	750	87	-	470	420	6.2	4	6.30	6.60	5.40
-R	~550	300.0	-	760	97	-	-	-	-	-	4.60	4.90	4.30
-BIII	~550	298.7	-	766	103	-	363	337	9.5	8	4.90	5.20	4.80
-B-K	~550	403.7	301.7	820	70	157	-	-	-	-	5.50	5.80	5.00
-PT	~550	-	294	925	177	217	337	308	-	-	5.30	5.60	4.80
-B-K-U	~550	403.7	301.7	870	70	207	-	-	-	-	6.00	6.30	5.50
-PT-U	~550	-	294	975	177	262	337	308	-	-	5.80	6.10	5.30
-B	~550	-	301.7	864	60	201	-	-	-	-	5.20	5.50	4.90
-B-S	~550	-	301.7	770	60	107	-	-	-	-	4.50	4.80	4.20
-X/Y-...-B-S	~550	-	Y	870	60	207	-	-	-	-	5.00	5.30	4.55

Ø 350	Dimensions [mm]										Weight [kg]		
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH	CHCH
STANDARD	~630	343.0	-	843	88	-	500	450	8.5	4	7.40	7.70	6.30
-R	~630	349.3	-	853	98	-	-	-	-	-	5.40	5.70	4.90
-BIII	~630	348.0	-	869	104	-	413	387	9.5	8	5.70	5.00	5.60
-B-K	~630	452.0	351	913	70	158	-	-	-	-	6.40	6.70	5.80
-PT	~630	-	-	-	-	-	-	-	-	-	-	-	-
-B	~630	-	-	-	-	-	-	-	-	-	-	-	-
-B-S	~630	-	351	863	60	107	-	-	-	-	5.25	5.55	4.90
-X/Y-...-B-S	~630	-	Y	963	60	207	-	-	-	-	5.90	6.20	5.35

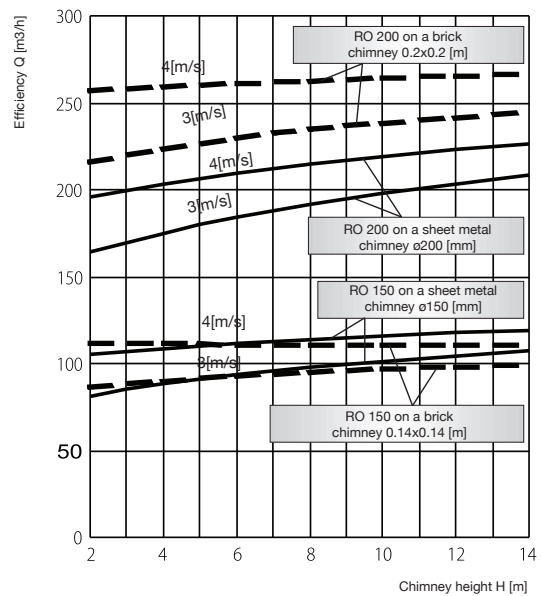
Ø 400	Dimensions [mm]										Weight [kg]		
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCOC	OCCH	CHCH
STANDARD	~670	393.0	-	930	90	-	600	550	8.5	4	11.85	12.40	10.65
-R	~670	400.2	-	960	120	-	-	-	-	-	8.20	8.75	7.90
-BIII	~670	398.3	-	946	106	-	464	438	9.5	8	8.70	9.25	8.55
-B-K	~670	503.9	402.1	1000	70	160	-	-	-	-	9.95	10.50	9.30
-B-S	~670	-	402.1	950	60	110	-	-	-	-	8.40	8.95	8.00
-X/Y-...-B-S	~670	-	Y	1050	60	210	-	-	-	-	9.40	9.96	8.75

### AIRFLOW CHARTS

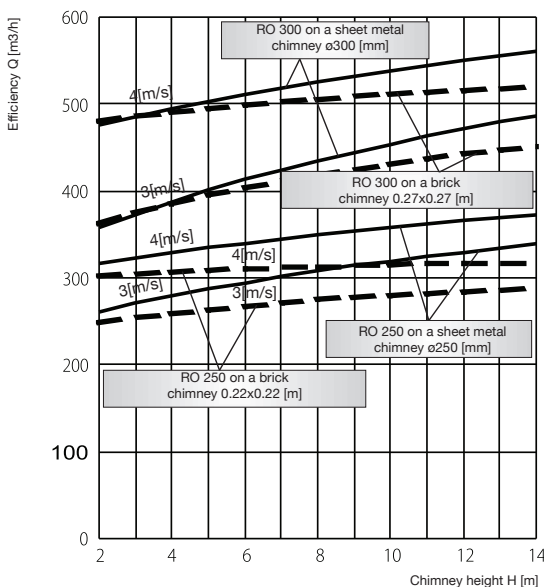


Efficiency chart for Rotowents (various diameters) in a function of wind speed, not including the influence of chimney height.

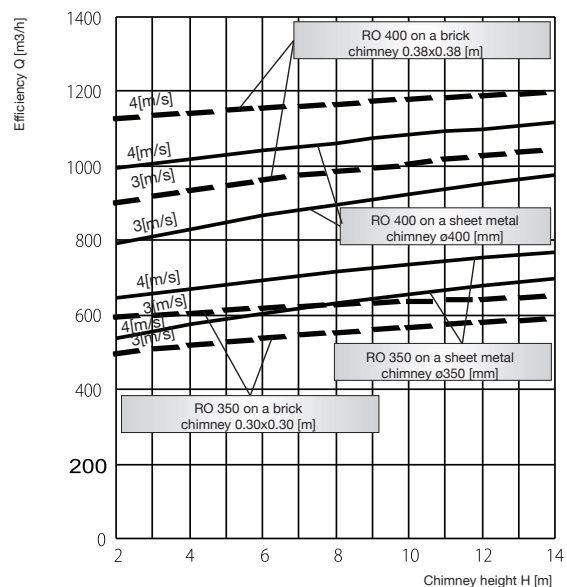
\*1 [m/s] = 3,6 [km/h]



Efficiency chart for Rotowents ø150 and ø200 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])



Efficiency chart for Rotowents ø250 and ø300 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])



Efficiency chart for Rotowents ø350 and ø400 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])